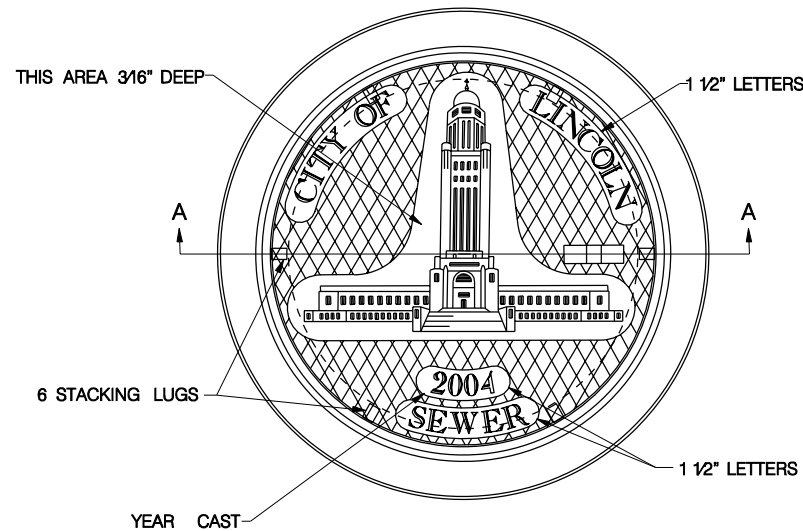


USER: SIECAW
Fricke, March 17, 2008
DATE: ...
DGN: ...

CITY PROJECT NO.	SHEET NO.
LSP	1
Date: 03-2005	Drawn: CAW
Scale: NONE	Checked: CAW
	Approved:



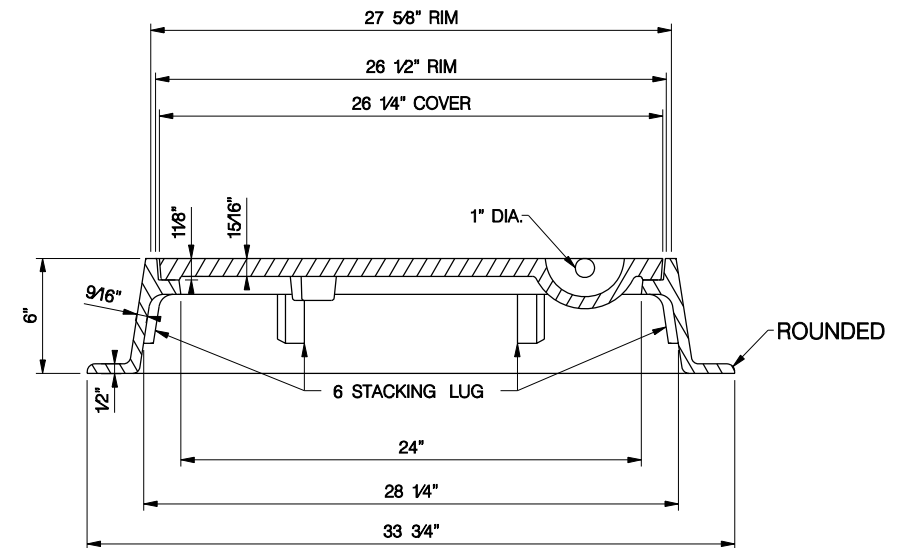
STORM SEWER MANHOLE



SANITARY SEWER MANHOLE

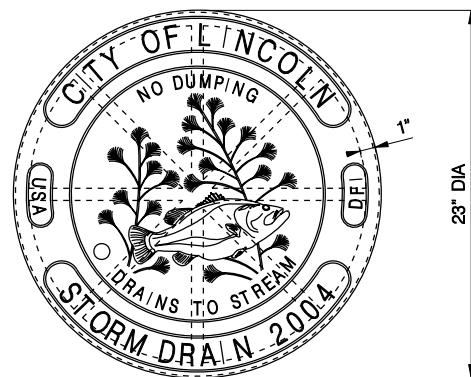


WATER MANHOLE



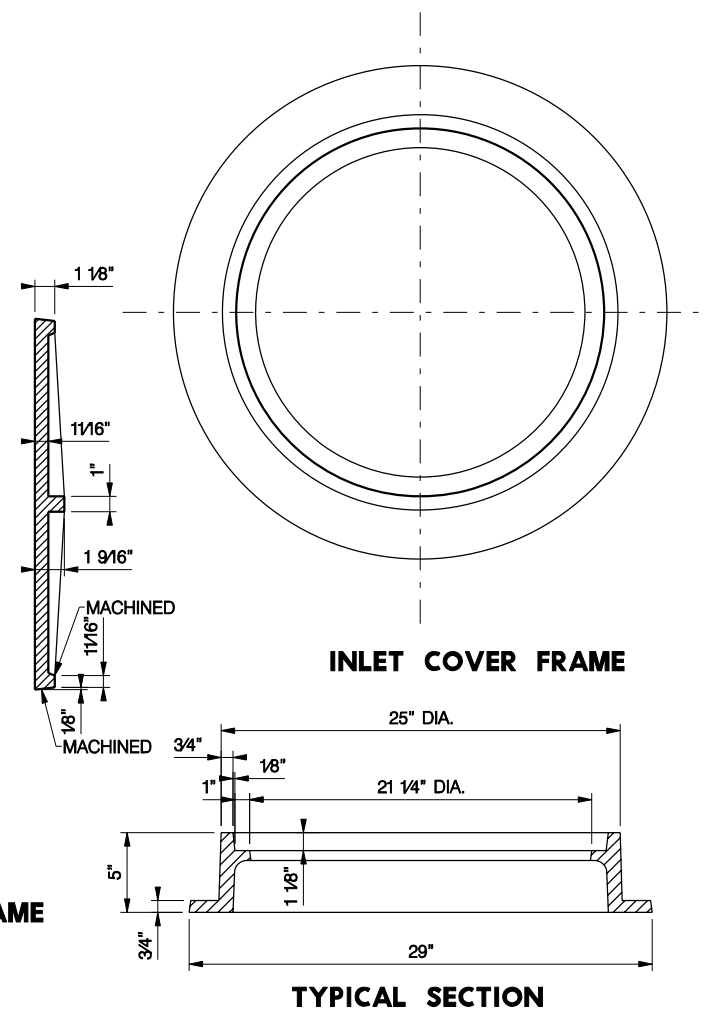
TYPICAL SECTION A-A

STANDARD HEAVY TRAFFIC TYPE MANHOLE COVER AND FRAME

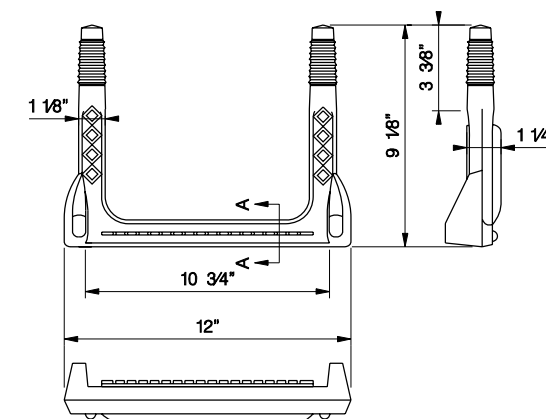


INLET COVER

**STANDARD
CAST IRON INLET COVER AND FRAME**

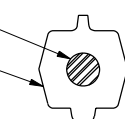


TYPICAL SECTION



1/2" GRADE 60 STEEL REINFORCEMENT

COPOLYMER POLYPROPYLENE PLASTIC



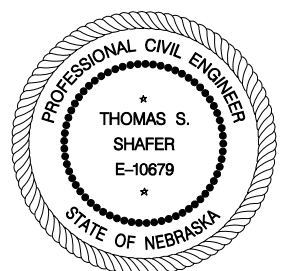
SECTION A-A

1. STEP SHALL MEET THE REQUIREMENTS OF ASTM C-478, AASHTO M-199 AND OSHA INSTRUCTION STD 1-1.9
2. POLYPROPYLENE PLASTIC SHALL CONFORM TO ASTM D-4101

REINFORCED PLASTIC STEPS

GENERAL NOTES:

1. CASTING SHALL CONFORM TO THE REQUIREMENTS OF 'SPECIFICATIONS FOR GRAY IRON CASTING' IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-48-83, CLASS 35B
2. CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY +/- 1/16" PER FOOT.
3. CASTING SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
4. CASTING SHALL BE RATED 'HEAVY DUTY' SUITABLE FOR H-20 TRAFFIC LOADING.



**CAST IRON MANHOLE RING, COVER AND STEPS
L.S.P. 162**